

# INTERNATIONAL SEARCH REPORT

ational Application No  
/IB2004/050397

**A. CLASSIFICATION OF SUBJECT MATTER**  
IPC 7 G01R33/563

According to International Patent Classification (IPC) or to both national classification and IPC

**B. FIELDS SEARCHED**

Minimum documentation searched (classification system followed by classification symbols)  
IPC 7 G01R

Documentation searched other than minimum documentation to the extent that such documents are included in the fields searched

Electronic data base consulted during the international search (name of data base and, where practical, search terms used)

EPO-Internal, MEDLINE, EMBASE, INSPEC, COMPENDEX, WPI Data, BIOSIS, PAJ

**C. DOCUMENTS CONSIDERED TO BE RELEVANT**

| Category | Citation of document, with indication, where appropriate, of the relevant passages  | Relevant to claim No. |
|----------|---|-----------------------|
| X        | CONTURO T E ET AL: "Tracking neuronal fiber pathways in the living human brain"<br>PROCEEDINGS OF THE NATIONAL ACADEMY OF SCIENCES OF USA, NATIONAL ACADEMY OF SCIENCE, WASHINGTON, US,<br>vol. 96, no. 18, August 1999 (1999-08),<br>pages 10422-10427, XP002247138<br>ISSN: 0027-8424<br>the whole document | 1,3,4,6,<br>7         |
| A        | -----<br>-/-  | 2,5                   |

Further documents are listed in the continuation of box C.

Patent family members are listed in annex.

\* Special categories of cited documents :

- \*A\* document defining the general state of the art which is not considered to be of particular relevance
- \*E\* earlier document but published on or after the international filing date
- \*L\* document which may throw doubts on priority claim(s) or which is cited to establish the publication date of another citation or other special reason (as specified)
- \*O\* document referring to an oral disclosure, use, exhibition or other means
- \*P\* document published prior to the international filing date but later than the priority date claimed

- \*T\* later document published after the international filing date or priority date and not in conflict with the application but cited to understand the principle or theory underlying the invention
- \*X\* document of particular relevance; the claimed invention cannot be considered novel or cannot be considered to involve an inventive step when the document is taken alone
- \*Y\* document of particular relevance; the claimed invention cannot be considered to involve an inventive step when the document is combined with one or more other such documents, such combination being obvious to a person skilled in the art.
- \*&\* document member of the same patent family

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| Date of the actual completion of the international search  | Date of mailing of the international search report |
| 21 July 2004   | 03/08/2004   |
| Name and mailing address of the ISA<br>European Patent Office, P.B. 5818 Patentlaan 2<br>NL - 2280 HV Hilswijk<br>Tel. (+31-70) 340-2040, Tx. 31 651 epo nl,<br>Fax: (+31-70) 340-3016 | Authorized officer<br><br>Skalla, J                |

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PCT/IB2004/050397

| C.(Continuation) DOCUMENTS CONSIDERED TO BE RELEVANT |  |                       |
|--|--|-----------------------|
| Category   | Category   | Relevant to claim No. |
| X  | KIM K.H. ET AL: "A Novel Fiber-Tracking Method Using Vector Criterion and Predictive Directivity in Diffusion Tensor Imaging"<br>PROCEEDINGS OF THE ISMRM, TENTH MEETING PROCEEDINGS, 18 May 2002 (2002-05-18), XP002289090<br>HONOLULU, HI, USA<br>the whole document<br>-----                        | 4                     |
| X  | STIELTJES B ET AL: "Diffusion tensor imaging and axonal tracking in the human brainstem."<br>NEUROIMAGE. SEP 2001, vol. 14, no. 3, September 2001 (2001-09), pages 723-735, XP002289186<br>ISSN: 1053-8119<br>page 725 - page 727<br>-----   | 1, 4, 7               |
| A  | MORI SUSUMU ET AL: "Fiber tracking: principles and strategies - a technical review."<br>NMR IN BIOMEDICINE. 2002 NOV-DEC, vol. 15, no. 7-8, November 2002 (2002-11), pages 468-480, XP009034056<br>ISSN: 0952-3480<br>* section "Erroneous results due to noise and resolution limitations" *<br>----- | 1-7                   |